

WHAT IS CLAIMED IS:

Sub
A1

1. An air-permeable filter for ink cartridge which comprises a laminate comprising at least one porous material layer comprising at least one resin selected from the group consisting of fluororesin and polyolefin resin and at least one air-permeable substrate layer having a tensile strength of 1 MPa or more.

2. The air-permeable filter for ink cartridge according to Claim 1, wherein the air permeability of said air-permeable substrate is 300 sec/100 ml or less as represented by Gurley number.

3. The air-permeable filter for ink cartridge according to Claim 1, wherein at least one layer of said laminate has been rendered water-repellent and oil-repellent.

4. The air-permeable filter for ink cartridge according to Claim 1, wherein said porous material comprises a polytetrafluoroethylene and said air-permeable substrate comprises a ultrahigh molecular polyethylene.

5. An ink cartridge comprising a space for receiving an ink and at least one air vent in which an air-permeable filter is provided, said air-permeable filter comprises a laminate comprising at least one porous material layer comprising at least one resin selected from the group consisting of fluororesin and polyolefin resin and at least one air-permeable substrate layer having a tensile strength of 1 MPa or more.

6. The air-permeable filter for ink cartridge according

Sub
cont
A

to Claim 1, wherein the tensile strength of the air-permeable substrate is from 1 MPa to 1,500 MPa.

7. The air-permeable filter for ink cartridge according to Claim 6, wherein the tensile strength of the air-permeable substrate is from 3 MPa to 500 MPa.

8. The air-permeable filter for ink cartridge according to Claim 2, wherein Gurley number of the air-permeable filter is from 0.1 sec/100 ml to 300 sec/100 ml.

9. The air-permeable filter for ink cartridge according to Claim 8, wherein Gurley number of the air-permeable filter is from 0.5 sec/100 ml to 100 sec/100 ml.

10. The air-permeable filter for ink cartridge according to Claim 1, wherein the average diameter of the pores in the porous material is 10 μ m or less.

11. The air-permeable filter for ink cartridge according to Claim 10, wherein the average diameter of the pores in the porous material is from 0.01 μ m to 5 μ m.

12. The air-permeable filter for ink cartridge according to Claim 1, wherein the thickness of the porous material is preferably 2 μ m or more.

13. The air-permeable filter for ink cartridge according to Claim 12, wherein the thickness of the porous material is from 10 μ m to 1,000 μ m.

14. The air-permeable filter for ink cartridge according to Claim 4, wherein the viscometric average molecular weight of the ultrahigh molecular polyethylene is 300,000 or more.

Sub
cont
A1

15. The air-permeable filter for ink cartridge according to Claim 14, wherein the viscometric average molecular weight of the ultrahigh molecular polyethylene is from 500,000 to 10,000,000.

16. The ink cartridge according to Claim 5, wherein the porous material of the air-permeable filter faces an inner space of the ink cartridge.

A2

add

add C1